WP 05-WH1406

Revision 18

Conveyance Loading Car

Technical Procedure

EFFECTIVE DATE:	04/03/19		

Gary Chism
APPROVED FOR USE

THIS DOCUMENT IMPLEMENTS HWFP REQUIREMENTS.

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CHANGE HISTORY SUMMARY

REVISION NUMBER	DATE ISSUED	DESCRIPTION OF CHANGES
18	04/03/19	Updated JHA.
		 Added HWFP banner on cover page.
		 Added Abbreviations and Acronyms.
		Added Attachment 2, Leak Categorization.

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1.0 INTRODUCTION

1.1 PURPOSE

This procedure provides instructions for preoperational inspection of the Conveyance Loading Car, 41-H-018.

Performance of this procedure, or selected sections of the procedure, implements inspection requirements of the HWFP relative to the scope of, and as defined in, this document. Unless otherwise noted, this procedure is performed by Waste Handling personnel.

1.2 SCOPE

This procedure specifies HWFP preoperational Conveyance Loading Car inspection requirements.

1.3 RECORDS

Records generated are handled in accordance with departmental RIDS. Performance of this procedure generates the Equipment Logbook.

2.0 REFERENCES

DOCUMENT NUMBER AND TITLE	BASELINE DOCUMENT	REFERENCED DOCUMENT	KEY STEP
Title 40 CFR§264.15, General Inspection	1		
Requirements	•		
Hazardous Waste Facility Permit, EPA		1	\$
Identification Number NM4890139088-TSDF		•	Ф
DOE/WIPP-07-3372, Waste Isolation Pilot Plant			
Documented Safety Analysis	•		
DOE/WIPP-07-3373, Waste Isolation Pilot Plant	./		
Technical Safety Requirements	•		
WP 05-WH1101, Surface Transuranic Mixed		./	
Waste Handling Area Inspections		•	
WP 10-WC3011, Work Control Process	✓		
WP 04-AD3016, Equipment Out of Service		./	
Process		•	
WP 15-GM1002, Issues Management		./	
Processing of WIPP Forms		•	
05-WH1406-JHA, Conveyance Loading Car	✓		
Equipment No. 41-H-018, Maintenance Manual			
for Conveyance Loading Car, West Mont	✓		
Industries			

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2.1 ABBREVIATIONS AND ACRONYMS

AR Action Request

CFR Code of Federal Regulations

CH Contact-Handled

CMRO Central Monitoring Room Operator

HWFP Hazardous Waste Facility Permit

LCO Limiting Conditions of Operation

OOS Out of Service

PPE Personal Protective Equipment

RIDS Records Inventory and Disposition Schedule

RWP Radiological Work Permit

SAT Satisfactory

SEC Site Environmental Compliance

WHE Waste Handling Engineer

WIPP Waste Isolation Pilot Plant

3.0 PRECAUTIONS AND LIMITATIONS

3.1 PRECAUTIONS

- Radiological hazards exist during operations in a Radiological area.
 Personnel are to read and sign the RWP and obey postings.
- Electrical hazards exist when connecting/disconnecting or switching on/off 480V DISC SW 41P-SW04/39. Personnel are to wear long sleeve 100% cotton shirts, safety shoes, and safety glasses.
- Eye, foot, head, and hand hazards exist during spotting operations or handling 480 V-cable. Personnel are to wear leather (mechanics) gloves and safety/hard toed shoes, safety glasses with side shields, and hard hat.
- Forklift use hazards exist during general operations. Personnel are to use a designated spotter and travel on suitable surfaces.
- Hazardous energy hazards exist while car is in motion. Personnel are
 to stay clear of cable reel, car, and structures, and wear leather
 (mechanics) gloves. When connecting or disconnecting the 480 volt
 power cable, personnel are to make sure the local disconnect is off.

- Pinch point hazards exist during general operations and inspections.
 Personnel are to wear leather (mechanics) gloves and maintain situational awareness of placement of extremities.
- Slips/trips hazards exist during general operations and inspections.
 Personnel are to maintain situational awareness and good housekeeping.
- Vehicle traffic hazards exist during general operations. Personnel are to use a designated spotter.

3.2 LIMITATIONS

• The following Technical Safety Requirement applies:

Liquid-fueled vehicles/equipment shall not be present in the CH Bay, Room 108, and Waste Shaft Access Area, when CH Waste is present in a process area, during Waste Handling and Waste Storage Modes. **[LCO 3.3.2]**

4.0 PREREQUISITE ACTIONS

- 4.1 **REVIEW** Equipment Logbook for outstanding deficiencies and ARs.
- 4.2 Using the 13-ton forklift and a spotter, **POSITION** conveyance loading car into Conveyance Loading Room.

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5.0 PERFORMANCE

5.1 PREOPERATIONAL CHECKS

HWFP

5.1.1 **(\$) GO TO** Attachment 1, Conveyance Loading Car Preoperational Checks, and **PERFORM** Steps 1 through 8. **[HWFP Table E-1]**

WARNING

When moving the 480V DISC SW 41P-SW04/39 breaker switch to the OFF or ON position, operators are required to wear 100% cotton long-sleeve shirts, safety shoes, and safety glasses.

5.1.2 **IF** power cable is connected to car, **THEN GO TO** Step 5.1.3.

OR

IF power cable is not connected to car, **THEN**

- [A] **ENSURE** 480V DISC SW 41P-SW04/39 is OFF.
- [B] **VERIFY** contacts are separated.
- [C] **CONNECT** power cable and **STRAIN** relief to car.
- 5.1.3 **PLACE** 480V DISC SW 41P-SW04/39 in ON.
- 5.1.4 **TURN** system ON by turning system On-Off key switch clockwise on control panel 411-CP04/20.
- 5.1.5 **PUSH** start button.

HWFP

- 5.1.6 (\$) GO TO Attachment 1 and PERFORM Steps 9 through 11. [HWFP Table E-1]
- 5.1.7 **NOTIFY** WHE of operational status, deficiencies discovered and status of each.
 - [A] **IF** deficiencies cannot be corrected when discovered, **THEN INITIATE** AR.

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- 5.1.8 **RECORD** the following information in the Equipment Logbook:
 - Deficiencies found
 - Procedure number
 - Equipment number
 - Check SAT or Problems Noted
 - AR(s), if newly initiated or outstanding
 - Date, time, and signature to document performance of preoperational check
- 5.1.9 **IF** preparing for Waste Handling Mode **THEN GO TO** WP 05-WH1101, CH Surface Transuranic Mixed

 Waste Handling Area Inspections, and **COMPLETE** Conveyance
 Loading Car 41-H-018 portion of Attachment 4, TP-II

 Preoperational Waste Handling Mode Checklist.
- 5.1.10 **IF** a HWFP-required inspection becomes delinquent or failed, **THEN PERFORM** the following:
 - [A] Immediately **NOTIFY** on-call SEC Representative and CMRO of delinquent or failed inspection.
 - [B] **RESCHEDULE** and **COMPLETE** required inspection.
 - [C] **DOCUMENT** the following, and **SUBMIT** to PermitInspections@wipp.ws within five working days:
 - Inspection document number
 - Description of facility, equipment involved
 - Schedule for inspection
 - Reason(s) why inspection was NOT performed or failed
 - Compensatory measures taken to offset negative impacts from NOT performing the inspection or equipment NOT providing its intended function
 - Actions to prevent further delinquencies
 - [D] WHE, **GO TO** WP 15-GM1002, Issues Management Processing of WIPP Forms, and **ENSURE** a WIPP form is generated.

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5.2 CONVEYANCE LOADING CAR SHUTDOWN

WARNING

When moving the 480V DISC SW 41P-SW04/39 breaker switch to the OFF or ON position, operators are required to wear 100% cotton long-sleeve shirts, safety shoes, and safety glasses.

- 5.2.1 **TURN** system OFF by turning system On-Off key switch counter-clockwise on control panel 411-CP04/20.
- 5.2.2 **PLACE** 480V DISC SW 41P-SW04/39 in OFF.
- 5.2.3 Visually **VERIFY** contacts are separated and breaker is OPEN.
- 5.2.4 **DISCONNECT** power cable.

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HWFP (\$) Attachment 1 – Conveyance Loading Car Preoperational Checks [HWFP Table E-1]

NOTE

Deficiencies corrected when discovered are considered satisfactory.

	INSPECTION	CRITERIA	SAT	UNSAT	NA
1.	Tracks	ENSURE tracks are clear of obstacles			
2.	Wheels	ENSURE wheels are fully seated on tracks			
		NO loose parts			
3.		NO grease leaks			
	General Condition Checks (visual)	NO oil leaks, if leak is identified, refer to Attachment 2, Leak Categorization			
		NO trash			
		NO deterioration/damage which includes visible cracks, erosion, salt build-up, corrosion, malfunctions, and structural deterioration			
4.	Gear Box Oil Level	ENSURE oil is above lower level mark			
5.	Power Cable	ENSURE cable reel 41-P-004C is properly wound			
6.	Guards	ENSURE guards are in proper place			
7.	Reflectors	ENSURE reflectors are attached and not blocking Door #140			
8.	Light Transmitters	ENSURE both light transmitters are attached to car			
	Operational Checks	VERIFY RED POWER light illuminates			
		MOVE Up-Down joy stick to UP			
		VERIFY RAISE light illuminates			
9.		VERIFY limit switch stops UP travel			
9.		MOVE Up-Down joy stick to DOWN			
		VERIFY LOWER light illuminates			
		VERIFY limit switch stops DOWN travel			
		ENSURE sensor selector is in tram			
	Sensor Bypass Checks	Momentarily PRESS Sensor Bypass push button while holding FWD/REV joy stick in FWD position			
		VERIFY FWD light illuminates			
		VERIFY forward travel a minimum of two feet			
10		MOVE FWD/REV joy stick to REV position			
10.		VERIFY REV light illuminates			
		VERIFY reverse travel			
		VERIFY sensor stops conveyance car			
		Momentarily PRESS Sensor Bypass push button while holding FWD/REV joy stick in REV position			
	Mith. Dana!	PRESS EMERGENCY STOP button			
11.	With Panel Energized	VERIFY panel de-energizes			
		RESET Emergency Stop button			

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Attachment 2 – Leak Categorization

	TYPE 0	TYPE 1	TYPE 2	TYPE 3	TYPE 4
Indications:	No	Dampness	Dripping	Spraying	Ruptured
	indications	around hoses	from a	from a hose	hose (e.g.,
	of moisture-	or engine	hose	or oil	oil line, fuel
	dry	compartments,		running	line)
		including oil		down	
		sheen		firewall, etc.	
Status	Opei	rational	DO NOT OPERATE		TE
Required	None	RECORD leak	[A] TAG equipment OOS with an		
Actions:		Type 1 and the	OOS Tag per WP 04-AD3016,		
		source of the	Equipment Out of Service Process		
		leak in	[B] SUBMIT AR for repairs		
		equipment	[C] RECORD leak type and AR		
		specific	number in equipment specific		specific
		Logbook	Logbook		
			[D] WHEN repairs and cleanup are		
			completed, the equipment can be		
			put back into service		